Océ User manual

Océ BLM500

Bookletmaker Océ BLM500

Océ-Technologies B.V.

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Edition 08-2007

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Chapter 1
Introduction to the Océ BLM500

Introduction

Introduction

Thank you for choosing the Océ BLM500.

Your Manual

The Océ BLM500 User Manual describes how to do these tasks:
- Operate the Océ BLM500
- Find and correct error conditions
- Do normal maintenance tasks

Operator training is given when the Océ BLM500 is installed. To make sure you use your Océ BLM500 correctly, read your manual.

The Océ BLM500 User Manual does not describe the operation of the printer. If needed, refer to your printer user manual.

Safety Information

Safety information is included in the separate 'Safety Information Manual'. Read the safety information before you use your Océ BLM500.

Caution: A CAUTION message tells you that a procedure or operation can be dangerous. To prevent injury, you must follow the instructions.

Attention: An ATTENTION message tells you that a procedure or operation can damage the machine or the product. To prevent damage, you must follow the instructions.

Installation

Your Océ BLM500 must be installed by a service engineer. Special knowledge is needed to install the machine.
Attention:
Only connect the machine to a mains power supply of the correct voltage with a good earth-connection. The correct machine-voltage is shown on the label at the mains power supply input on the rear of the machine. If the machine is connected to the wrong supply, the warranty is canceled.

How to Get Help

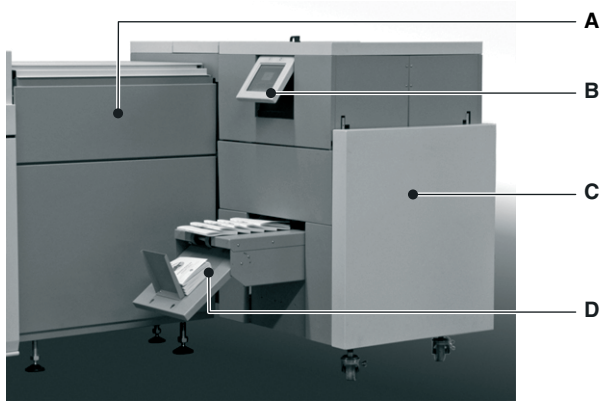
If you have any questions or problems, refer to the problem solving section in this manual (see chapter 'Error Conditions, Problems and Solutions”'). Contact your Océ BLM500 supplier for further help.

Description of the Océ BLM500

Introduction

The Océ BLM500 operates online with digital printers to process sets of printed pages into stitched books. The main parts are shown below.

Illustration



[1] Operator Side of the Océ BLM500

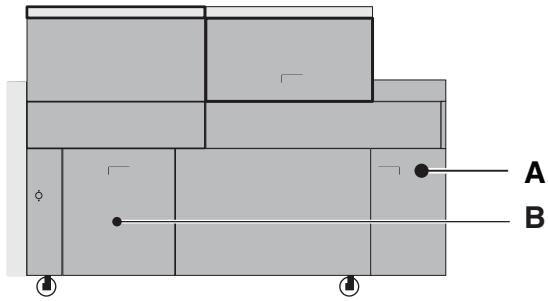
Component - function table

[1] Operator Side of the Océ BLM500

	Component	Function
A	The connecting bridge	The connecting bridge moves the printed sheets from the printer to the Océ BLM500. If needed, the sheets are rotated into the correct direction. Rotation lets the printer operate at optimum print speed. Adjustment for the size of the paper and sheet rotation is automatic, according to the settings entered on the touch screen.
B	The User Interface	The user interface has a color touch screen, a start button ⏽ and a stop button ⏾.
C	The Océ BLM500	The Océ BLM500 stitches, folds, spine-forms and trims the sheets to make a finished book.
D	The stacker	The stacker collects the finished books.

Right Hand Side of the Océ BLM500

Illustration



[2] Right hand side of the Océ BLM500

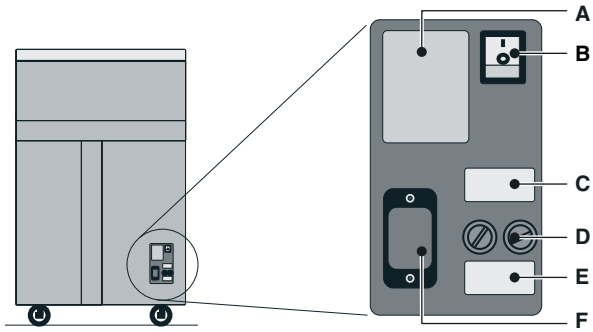
Component - function table

[2] Right hand side of the Océ BLM500

	Component	Function
A	The stitch wire cabinet	The stitch wire cabinet holds the spool of stitch wire.
B	Trim Bin	The trim bin collects the paper that is trimmed from the edge of the book.

The Rear Panel of the Océ BLM500

Illustration



[3] The Rear Panel of the Océ BLM500

Component - function table

[3] The Rear Panel of the Océ BLM500

	Component	Function
A	Rating and serial label	The rating label displays the type of machine, serial number, power use and fuse information.
B	Mains power ON/OFF switch	The mains power ON/OFF switch turns the Océ BLM500 ON or OFF. When you turn OFF the Océ BLM500, the current settings are stored.
C	Voltage advisory label	The voltage advisory label tells the installer to refer to the installation instructions before the Océ BLM500 is connected to mains power. The Océ BLM500 can be adjusted for one of several different input voltages.
D	Fuses	The fuses make sure the operator and the machine are protected if there is an electrical problem or short circuit.
E	Voltage label	The voltage label is fitted to the Océ BLM500 during the installation procedure. The voltage label displays the selected voltage.
F	Mains power input connector	The mains power input connector is used to connect the Océ BLM500 to mains electrical power.

Chapter 2
How to run the Océ BLM500

This chapter gives information on how to run a job on the Océ BLM500. For information on how to operate the printer, refer to the printer documentation. Information about the user interface is included in chapter 'The User Interface'.

Information about standard procedures, for example opening covers to clear a paper jam, is included in chapter 'Standard Tasks'.

Before You Begin

Paper and Book Quality Instructions

- The size of paper and the thickness of the set must be measured. These measurements are entered via the touch screen before you begin a print job.
- Measure the size of the printed paper. The paper dimension changes when the paper is printed.
- Measure the set thickness as accurately as possible. Use the measuring tool supplied with the machine.
- Enter accurate dimensions via the touch screen.
- If the book is made from several different types of paper, make sure the different paper types are all the same size.

See *Book Quality on page 56* for further information.

Turn On the Océ BLM500

Procedure

1. Connect the Océ BLM500 to the mains power supply.
2. Use the mains ON/OFF switch to turn ON the Océ BLM500

Result

The machine makes this sequence of beeps:
'beep__beep beep beep beep_____ beep beep'.

The touch screen illuminates and the machine is ready for use.

Enter the Job Settings

Introduction

Make the settings for a new job in the BASIC window on the touch screen. See 'The User Interface' on page 11 for more information.
The PAPER SIZE and PAGE DIRECTION settings are entered via the touch screen. These dimensions refer to the format of the paper when it enters the Océ BLM500

Attention: Do not operate the touch screen with a sharp object or with too much force. These actions can damage the touch screen.

Before You Begin

1. Print a set to the stacker.
2. Measure the sheet size and the set thickness.
3. Use these dimensions for the job setting.

Note: *This set can be made into a book. See Operate the Océ BLM500 offline on page 45*

[4] Kind of print jobs

If the Print Job is	then follow this procedure
a standard paper size	See *Job Setting for a Standard Paper Size*
not a standard paper size	See *Job Setting for a Non-Standard Paper Size*
a saved job	See *Job Setting for a Saved Job* on page 16

Job Setting for a Standard Paper Size

Step	Action	Information
1	Touch BASIC ⌂	
2	Enter the paper size and page direction	Touch PAPER SIZE > PRESETS > A3 or A4. (USA: 11x17, 8.5x11 or 8.5x14) The PAGE DIRECTION is PORTRAIT. If needed, touch PAGE DIRECTION > LANDSCAPE.
3	Enter the set thickness.	Touch THICKNESS. Enter the measured value.
4	Enter the number of stitches.	Touch STITCHES and enter the number of stitches.
5	Touch CLOSE.	

Job Setting for a Non-Standard Paper Size

Step	Action	Information
1	Touch BASIC ⌂	
2	Enter the paper size	Touch PAPER SIZE. Enter the dimensions of the paper.
3	Enter the page direction	Touch PAGE DIRECTION > LANDSCAPE or PORTRAIT. If the PAGE DIRECTION option is not available, the PAGE DIRECTION cannot be changed.
4	Enter the page rotation setting	For A4 paper size, the normal setting for ROTATE is ON. Rotation lets the printer operate at optimum speed. Touch ROTATE to turn the sheet rotation ON or OFF. Always select the page direction before you change the rotate setting.
5	Enter the set thickness.	Touch THICKNESS. Enter the measured value.
6	Enter the number of stitches.	Touch STITCHES and enter the number of stitches.
7	Enter the spine form setting	The spine form setting is automatic, according to the THICKNESS setting. If needed, the setting can be changed. See 'FORM' in table *10 on page 26*

Step	Action	Information
8	Enter the trim setting.	The trim setting is automatic, according to the PAGE SIZE and THICKNESS settings. To change the setting, touch TRIM. See 'TRIM' in table *11 on page 28*
9	Touch CLOSE	

Job Setting for a Saved Job

1. Touch LOAD & SAVE
2. Touch the job name or use the Up arrow and the Down arrow to select the job.
3. Touch LOAD.
4. Wait until theOcé BLM500 is ready

Stacker adjustment

Adjust the Stacker

Adjust the collection table on the stacker according to the size of the finished book. (see *'Adjust the Gate in the Gathering Area' on page 44*).

Adjust the Position of the Gate in the Gathering Area

Adjust the Position

Adjust the gate in the gathering area into the 'up' position for jobs of 1 to 3 sheets or the 'down' position for jobs of more than 3 sheets. *Adjust the Gate in the Gathering Area on page 44*.

Run the Job

1. Make sure the adjustments on the Océ BLM500 are complete before you release the print job from the print queue.
2. Start the print job. The Océ BLM500 starts automatically.
3. Check the quality of the first book
4. Check the quality of the first book. If the quality is not acceptable, make adjustments. (see *'Book Quality' on page 56*)

Result

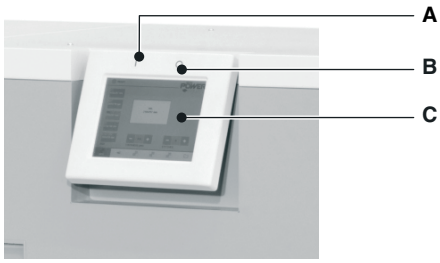
During the job

- Unload books from the stacker before the stacker is full. The Océ BLM500 stops and displays a message if the stacker is full.
- Empty the trim bin from time to time. The Océ BLM500 displays a message if the trim bin is full. (see *'Empty the Trim Bin' on page 41*)

Chapter 3
The User Interface

The Touch Screen

Introduction



[4] The User Interface

A	ON Button
B	OFF Button
C	Touch Screen

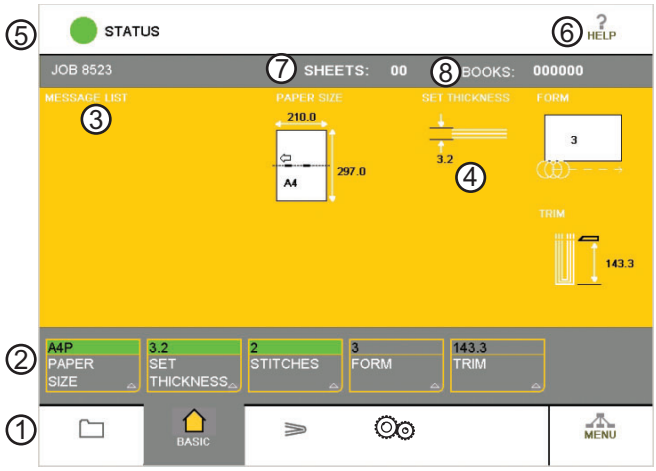
The user interface includes a color touch screen and ON/OFF buttons

Operate the touch screen with a fingertip. You can touch the screen with a blunt item, for example a palm-top 'wand' or the blunt end of a pen. Do not use too much force. A light touch is all that is needed.

Power save
The touch screen has a power-save function. After several minutes without use, the brightness of the touch screen decreases. After several hours, the touch screen turns off. Touch the screen to restore the normal brightness. The touch screen takes two or three minutes to reach full brightness.

Attention: Do not operate the touch screen with a sharp object or with too much force. These actions can damage the touch screen.

Illustration



[5] The Touch Screen

Component - function table

No.	Component	Function
1	Window Tabs	The touch screen buttons are divided into groups that have connected functions. Each group of buttons has a separate window. Touch the correct tab to select the window. **LOAD & SAVE** **BASIC** **ADVANCED** **CONFIGURE** **MENU**
2	Window Buttons	Each window contains a group of buttons. Touch the button to select the function.
3	Message List	Information and error messages are shown in the **MESSAGE LIST**. To display the information about a message, touch **HELP** then touch the message list.
4	Job Mimic	The job mimic shows the current machine settings.

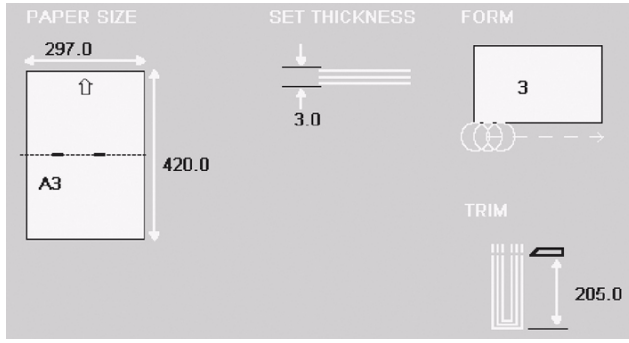
No.	Component	Function
5	Status	The **STATUS** line shows the machine status.
	- GREEN	The Océ BLM500 is **READY** or **RUNNING**.
	- ORANGE	**PLEASE WAIT** - wait until the Océ BLM500is ready. **ATTENTION** - the Océ BLM500 needs an action by the operator.
	- RED	The Océ BLM500 is in an **ERROR** condition.
6	Help	Help text is available on the touch screen. ■ Touch **HELP** then touch any button or tab on the screen. Information about that button or tab is displayed. ■ Use the Up arrow and the Down arrow to scroll-up and scroll-down the screen. ■ Some text has more than one screen. Use the right-arrow and left-arrow to see the other screens. To leave the help-text, touch **HELP** or touch **X**.
7	Sheet Counter	The sheet counter shows the number of sheets in the gathering area. The counter starts again with each book.
8	Book Counter	The book counter shows the number of books made. The counter is reset to zero when the Océ BLM500 is turned off.

The Job Mimic

Introduction

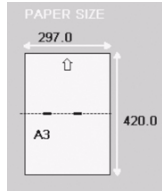
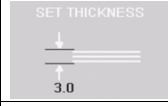
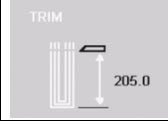
The job mimic shows the current machine status.

Illustration



[6] The Job Mimic

Component - function table

No.	Icon	Information
1		The following items are shown ■ the size of paper ■ the format of the paper in the gathering area ■ the broken line shows the fold line ■ the small thick lines show the stitches ■ the arrow shows the original feed edge in the printer
2		The set thickness, in mm, is shown.
3		The number of forms is shown. If the pressure is adjusted, the setting is shown in brackets. A red X shows that the form function is not active.
4		The trim setting is displayed. A red X shows that the trim function is not active.

The BASIC Window

Introduction

The **BASIC** window gives you access to frequently-changed machine settings.

Button overview

[10] The BASIC Window Buttons (1 – 2)

Button	Information
PAPER SIZE	Touch **PAPER SIZE** to enter the paper size. When the machine is in operation, you can adjust the **PAPER SIZE** by a maximum of +/- 1mm.
- PAGE DIRECTION	Touch **PAGE DIRECTION** to change the direction of the paper to Landscape or Portrait.
- ROTATE	Touch **ROTATE** to set the sheet rotation ON or OFF. If you select A4 portrait (USA: 8.5x11), **ROTATE** is set to **ON** automatically.
- PRESETS	Touch **PRESET** to select a standard paper size.
SET THICKNESS	Use the **SET THICKNESS** window to define the thickness of the set.
- THICKNESS	Measure the thickness of the set before you make a book. Touch **THICKNESS** and enter the value.
STITCHES	Touch **STITCHES** to select the number of stitches. Available options are **1**-**6**. The machine automatically calculates the position of the stitches according to the size of the paper. Select **0** to turn off the stitch function.
FORM	To make the square spine of the book, pressure is applied to the spine. This process is called forming. Touch **FORM** to specify the amount of spine form. To make a good spine on heavy or coated paper, the amount of spine form can be increased. To increase the amount of spine form ■ Touch **NUMBER** to repeat the process ■ Touch **PRESSURE** to increase the pressure
- AUTO	Touch **AUTO** to select the optimum amount of spine form, according to the set thickness.

[10] The BASIC Window Buttons (2 – 2)

Button	Information
- NUMBER	Touch **NUMBER** to select how many times the form roller processes the spine. The available options are 1, 2, 3 or 4. The form function can be turned off. An increase in **NUMBER** increases the time taken to form the spine and can decrease the production rate for thin books. Alternatively, increase the **PRESSURE**.
- PRESSURE	Touch **PRESSURE** to increase or decrease the pressure used to form the spine. Touch **+** to increase the amount of spine form. Touch - to decrease the amount of spine form. The range is -9 to +9. The default setting is 0.
- THRESHOLD	The square spine is formed only on sets thicker than 0.8mm. To change this value, touch **THRESHOLD** and enter the value you need. The maximum value is 1.5mm.
TRIM	The trim dimension is calculated automatically according to the **PAPER SIZE** and **SET THICKNESS**. If needed, the trim dimension can be changed. Touch **TRIM** to adjust the size of the finished book after the fore-edge is trimmed. The maximum trim is 30mm. The trim function can be turned off.

The LOAD & SAVE Window

Introduction

The **LOAD & SAVE** window lets you save and reload job settings. Each job is given a name. The jobs are displayed in a list on the screen. Touch the job name or use the Up arrow or Down arrow to make the selection.

Button overview

[11] The LOAD & SAVE Window Buttons (1 – 2)

Button	Information
SAVE	Touch **SAVE** to save the current settings. An on-screen keyboard is displayed. Enter the job name. Touch **OK** or **CLOSE**. The new job appears in the list of saved jobs. You can reload a saved job to decrease set-up time in the future.
- REPLACE	If you change the settings of a saved job, touch **REPLACE** to save the new settings.
- CANCEL	Touch **CANCEL** if you do not need to save a job that you have changed.
- SAVE NEW	If you change the settings of a saved job, touch **SAVE NEW** to save the new settings as a new job. An on-screen keyboard is displayed. Enter the new job name. Touch **OK** or **CLOSE**. The original job is not changed. If the job name is not changed before **OK** or **CLOSE** is touched, the job will be saved with the current name followed by an asterisk *.
JOB DETAILS	**JOB DETAILS** shows the settings for each saved job. Select the job that you need to view from the job list. Touch **JOB DETAILS** to see a summary of the job settings.
LOAD	Touch the job name or use the Up arrow or the Down arrow to make the selection. Touch the **LOAD** button

[11] The LOAD & SAVE Window Buttons (2 – 2)

Button	Information
PADLOCK SYMBOL	The padlock symbol shows when a saved job is locked or unlocked. There is a small padlock symbol next to each locked job. To lock or unlock a job. 1. select the job from the job list 2. touch the large key symbol. A padlock symbol displayed in light grey shows that a job has been locked by a supervisor to prevent changes to the settings
DELETE	To delete a particular job it must be unlocked. Touch the job name or use the Up arrow or Down arrow to make the selection from the job list. Touch and hold **DELETE**. A red line appears. The red line fills from left to right. Hold **DELETE** until the red line reaches the right-hand side.
VIEW OF JOB LIST	**VIEW OF JOB LIST** changes the order that saved jobs are listed. There is a line between Factory Template jobs and jobs saved by the operator. The Factory Template jobs are at the top of the list
- A->Z	Touch **A->Z** to list the jobs in alphabetical order.
- BY USE	Touch **BY USE** to list jobs in the order they were last used. The most recently-run job is at the top of the list.
- BY INDEX	Touch **BY INDEX** to list jobs in numerical order. the machine gives a number to all jobs that are saved.

The ADVANCED Window

Introduction

The **ADVANCED** ≫ window gives you access to special machine functions.

[12] Button overview

Button	Information
RE-REF	If the machine calibration appears incorrect, touch **RE-REF** to re-reference the adjustment axes. The adjustment axes return to the current settings. At intervals, the machine will re-reference the axes during the set-up procedure.
STITCHER UP	Touch **STITCHER UP** before you lubricate the stitch head. This action moves the stitch head to the correct position for lubrication.
PURGE SET	When an error occurs, a set or part of a set can remain in the gathering area. Touch **PURGE SET** to clear the set from the machine. The book is not stitched or trimmed
- MAKE BOOK	When an error occurs, a set or part of a set can remain in the gathering area. Touch **MAKE BOOK** to clear the set from the machine. The book is not stitched or trimmed.
FORM	This button is used by the service engineer.

The CONFIGURE Window

Introduction

The **CONFIGURE** window lets you make changes to the configuration of the machine.

Some of the settings can be changed, depending on the current access level.

CONFIGURE Window Buttons

[13] Button overview

Button	Information
MACHINE OPTIONS	Touch **MACHINE OPTIONS** to view the general machine setup. Some of the settings can be changed, depending on the current access level.
- MEASUREMENT	Select 'mm' or 'inch' as the unit of measurement.
- STITCH SENSOR	There is a sensor that checks for stitches. Touch **STITCH SENSOR** to turn the stitch sensor on or off. The default setting is ON.
- PRESET PAPER SIZES	The preset paper sizes can be either ISO A sizes or US paper sizes. To select which preset paper sizes are available, touch the relevant button.
NETWORK SETTINGS	This button is used by the service engineer.
SHUTTLE	Touch **SHUTTLE** to make adjustments to the tamper and pickup.
-TAMPER DELAY	The tamper removes air from the set before the set moves to the stitch area. Touch **TAMPER DELAY** to increase or decrease the delay before the tamper is activated. Light weight paper may need more time to stabilize. An increase in **TAMPER DELAY** causes a decrease in the production rate for thin books. The default setting is 400.
- TAMPER TIME	**TAMPER TIME** adjusts the time that the tamper touches the set. The default setting is 600.
FORM	This button is used by the service engineer.

The MENU Window

Introduction

MENU shows the settings that are not changed during day-to-day operation.

These settings include
- Change the Access Level
- Change the display language
- Advanced machine settings that are accessed by a person who has the correct access-code.

Button overview

[14] The MENU Window Buttons

Button	Information
ACCESS LEVEL	The Touch Screen has five different access levels ■ Operator ■ Supervisor ■ Service ■ Distributor ■ Factory Touch **ACCESS LEVEL** and select the correct level from the list. The last three levels are protected by access codes. To protect the job settings, the supervisor level allows jobs to be locked.
CURRENT LANGUAGE	Touch one of the flags to select the language you need.
AXES	This button is used by the service engineer.
BRIGDE	This button is used by the service engineer.
SERVICE OPTIONS	This button is used by the service engineer.
TEST	This button is used by the service engineer.

Chapter 4
Standard Tasks

This chapter describes the standard tasks that are needed in the day-to-day operation of your Océ BLM500.

Load and Save the Job Settings

Introduction

The current job settings can be saved to the memory and reloaded for use again at a later date. Load the 'Default Job Template' to reset the Océ BLM500 to normal settings.

Save a job

1. Touch **LOAD & SAVE** > **SAVE**.
2. If these options appear, select one.
   - **REPLACE** to over-write the previous job with the current job settings.
   - **SAVE NEW** to save the current job with a new name.
   - **CANCEL** to cancel the job save.
3. Enter the name for the job on the keyboard
4. Touch **OK** or **CLOSE**.

Load a job

1. Touch **LOAD & SAVE**.
2. Touch the job name or use the Up arrow and the Down arrow to select the job.
3. Touch **LOAD**.
4. Wait until the Océ BLM500 has made the adjustments.

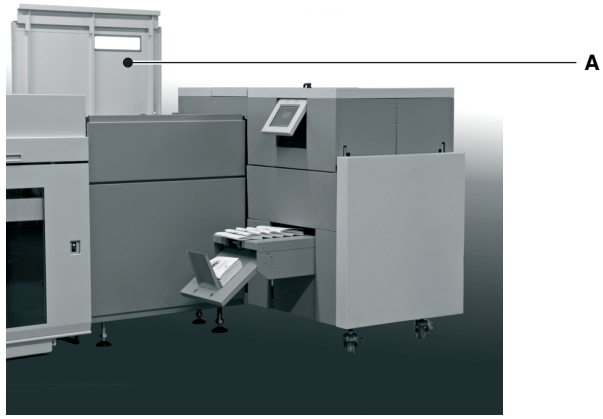
Reset the Océ BLM500 to default settings

1. Touch **LOAD & SAVE**.
2. Select the **Default Job Template** from the list of jobs.
3. Touch **LOAD**.
4. Touch **YES**.

Open the Connecting Bridge Cover

Introduction

The Océ BLM500 will not stop if you open the connecting bridge cover.



[11] Connecting Bridge Cover in the open position.

A	Connecting Bridge Cover

When to do

If a machine error occurs, or for maintenance.

- To clear a paper jam
- To clean the static elimination bar

Caution: Keep your hands, clothing and hair away from the belts.

Procedure

Lift the connecting bridge cover.

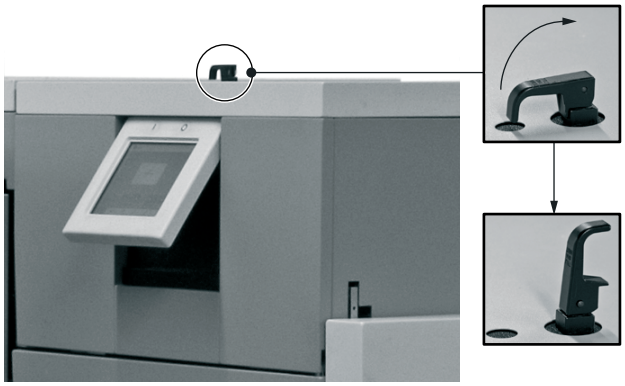
Open the Folder Cover

Introduction

If a machine error occurs, or for maintenance.

- To access the stitch area
- To access the folder area

Note: *The folder cover has an interlock switch. The Océ BLM500 stops if you open the folder cover.*



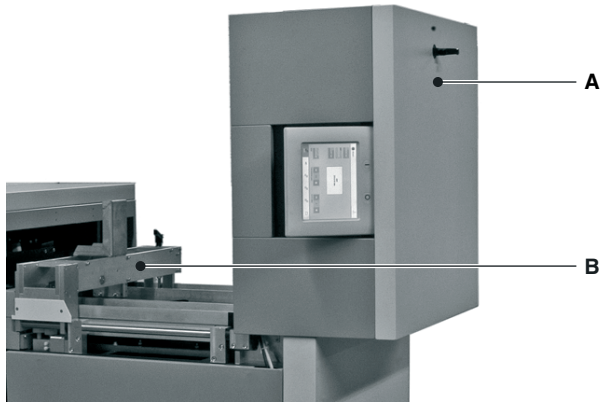
[12] Unlock the Folder Cover.

Procedure

1. Lift the black locking handle against the spring pressure.
2. Turn the handle through 90° to unlock.
3. Lift the folder cover carefully to the vertical.

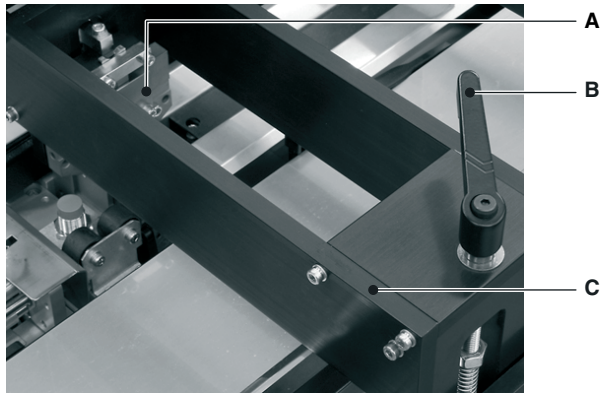
Lift and Lower the Clincher Frame

Introduction



[13] Folder Cover in the vertical position.

A	Folder Cover
B	Clincher Frame



[14] Clincher Frame Components

A	Clincher
B	Locking Handle
C	Clincher Frame

When to do

If a machine error occurs, or for maintenance.

- To clear a paper jam in the stitch area
- To unlock the Océ BLM500 main deck

Lift the Clincher Frame

1. Open the folder cover.
2. Turn the locking handle to the left, until the thread is disengaged.
3. Lift the clincher frame to the vertical position.

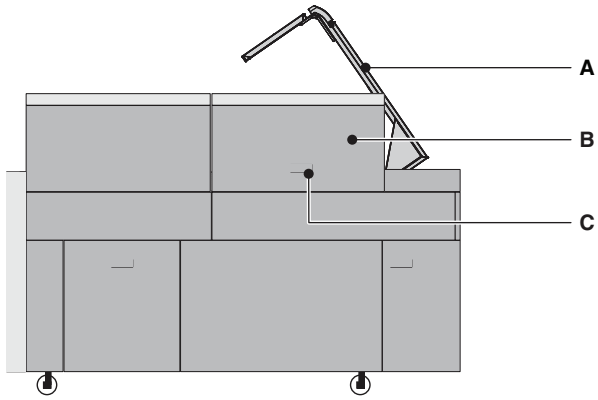
Lower the Clincher Frame

Attention: You must hold the weight of the clincher frame. Do not let the clincher frame fall on your hand.

1. Lower the clincher frame.
2. Turn the locking handle to the right, until the handle is tight.

Open the Gathering Area Cover

Introduction



[15] Gathering Area Cover.

A	Connecting Bridge Cover open
B	Gathering Area Cover
C	Gathering Area Cover Handle

When to do

If a machine error occurs, or for maintenance.

- To access the gathering area
- To access the static elimination bar in the gathering area

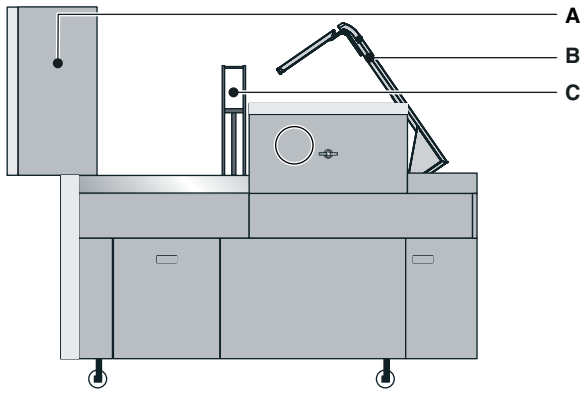
The Océ BLM500 will stop if you open the gathering area cover.

Procedure

1. Open the connecting bridge cover.
2. Use the gathering area cover handle to lift the gathering area cover.

Lift the Océ BLM500 Main Deck

Introduction



[16] Lift the Océ BLM500 Main Deck

A	Folder Cover open
B	Connecting Bridge Cover open
C	Clincher Frame lifted

When to do

If a machine error occurs, or for maintenance.

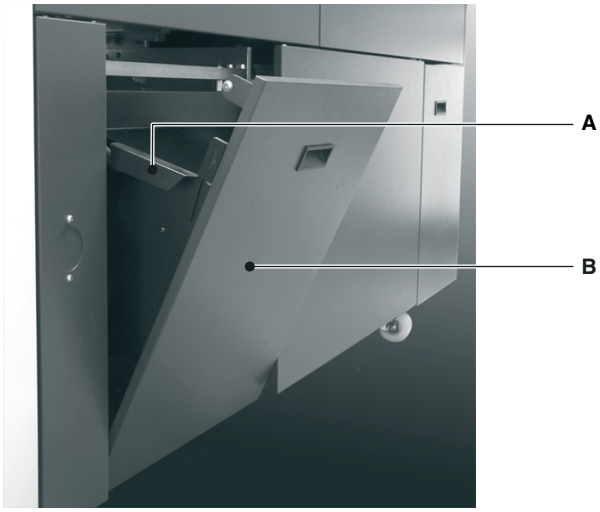
- To access the stitch head
- To access the former area
- To access the trim area

Procedure

Step	Action	Information
1	Open the connecting bridge cover.	(see '*Open the Connecting Bridge Cover' on page 35*)
2	Open the folder cover.	(see '*Open the Connecting Bridge Cover' on page 35*)
3	Lift the clincher frame.	(see '*Lift the Clincher Frame' on page 38*)
4	Open the gathering area cover.	(see '*Lower the Clincher Frame' on page 38*)
5	Lift the Océ BLM500 main deck.	The main deck lifts to approximately 60.

Empty the Trim Bin

Introduction



[17] Trim Bin Open.

A	Trim Bin Side Handle
B	Trim Bin open

Note: *The Océ BLM500 operates with the trim bin removed for a short time. The printer waits while the trim bin is removed, then continues when the trim bin is replaced. To prevent lost production, you must remove, empty and return the trim bin to the Océ BLM500 as quickly as possible.*

When to do

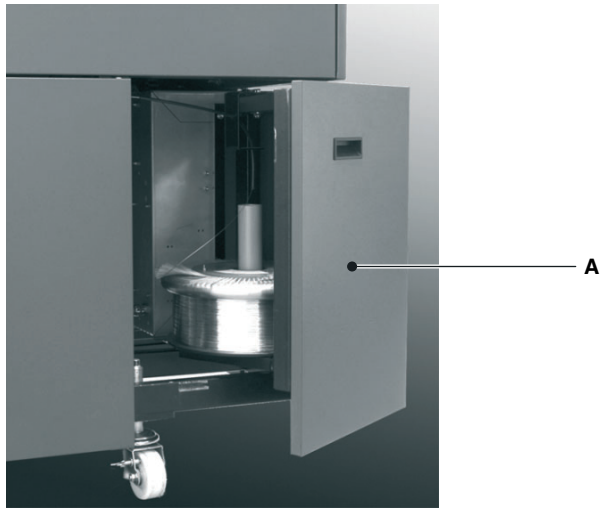
- An error message is displayed on the touch screen when the trim bin is full.
- You can empty the trim bin when you choose. For example, before you start a print job.

Procedure

1. Use the handle to open the trim bin.
2. Use the side handles to lift and remove the trim bin.
3. Empty the trim bin
4. Fit the bottom of the trim bin over the mounting rail.
5. Push the trim bin closed at the top.

Open the Stitch Wire Cabinet

Introduction



[18] Stitch Wire Cabinet.

A	Stitch wire cabinet open

When to do

- To see if the stitch wire is jammed or finished. An error message is displayed on the touch screen when the stitch wire is jammed or finished.
- To install a new stitch wire spool. (see *'Install New Stitch Wire' on page 90*).

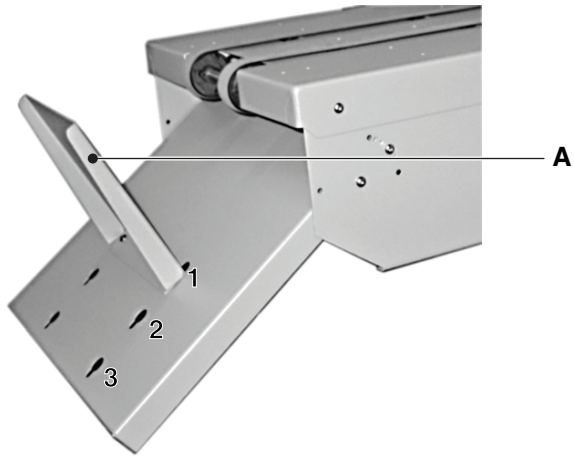
Procedure

Open the stitch wire cabinet cover. The cover is held closed by a magnetic catch.

Adjust the Stacker Collection Table

Introduction

The collection table must be in the correct position for the stacker to operate. The position of the collection table depends on the finished size of the job.



[19] Collection Table Positions

A	Insert the collection table into one of the three pairs of slots.

When to do

- When you start a new job
- If the books do not stack correctly

Procedure

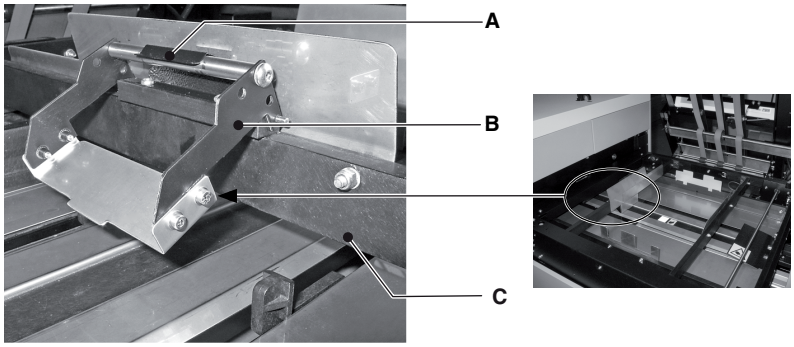
Insert the collection table into one of the three pairs of slots.

Finished Book Metric Paper Size	Metric Dimensions	Finished Book US Paper Size	Slot
A6	105 x 148 mm	4 1/4 x 5 1/2 inches	1
up to A5	148 x 210 mm	5 1/2 x 8 1/2 inches	2
up to A4	210 x 297 mm	8 1/2 x 11 inches	3
up to maximum size	Printer dependent	9 3/4 x 13 1/4 inches	3

Adjust the Gate in the Gathering Area

Introduction

The gate in the gathering area must be in the 'up' position for jobs of 1 to 3 sheets and in the 'down' position for jobs of more than 3 sheets. If the gate is left 'down' for thin jobs, then the sheets of paper can be damaged or jam in the machine.



[20] Gate in the 'up' position

A	Metal Spring Clip
B	Gate
C	Sidelay

When to do

- When you start a new job

Lift the Gate in the Gathering Area

1. Open the gathering area cover. *Open the Gathering Area Cover* *on page 39*.
2. Lift the gate on the sidelay until the gate engages with the metal spring-clip.figure *20*
3. Close the gathering area.

Lower the Gate in the gathering Area

1. Open the gathering area cover. *Open the Gathering Area Cover* *on page 39*
2. Press on the gate to disengage the gate from the metal spring-clip.figure *20*
3. Close the gathering area.

Operate the Océ BLM500 offline

Introduction

You can hand feed sets into the Océ BLM500 if offline operation is needed. The machine operates when you push the two buttons.

When to do

- To check the settings are correct
- To make a small number of books offline

Attention: Do not put your hands in the gathering area when the machine operates. Use two hands to push the buttons. For safety reasons, this task is for a single operator. Do not let another person help you.

Procedure

1. Enter the correct settings on the touch screen, according to the size and thickness of the job.
2. Touch START ⏻
3. Open the connecting bridge cover.
4. Open the gathering area cover.
5. Put the set in the gathering area with the middle pages of the book face up.
6. Press the two buttons and hold for 9 seconds, or until you hear the folder operate. The time interval changes according to the number of stitches.

Chapter 5
Error Conditions, Problems and Solutions

This chapter describes how to correct problems that can occur on your Océ BLM500. If a problem continues, contact your service engineer.

Clear a Printer Error

Introduction

If a paper jam or other error occurs in the printer, the printer and the Océ BLM500 stop.

Procedure

1. Clear the printer error.
2. Follow the instructions on the printer. If the printer tells you to remove paper from the Océ BLM500, then touch **ADVANCED > PURGE SET > PURGE SET.**
3. The partial book is delivered to the stacker.
4. Discard the book.

Clear a Océ BLM500 Error

Introduction

If a paper jam or other error occurs in the Océ BLM500, the printer and the Océ BLM500 stop. The type of Océ BLM500 error is displayed on the touch screen. (see *'Error Messages' on page 51*)

Procedure

1. Clear the Océ BLM500 error. The error message on the touch screen tells you about the error.
2. Remove all sheets from the Océ BLM500.
3. Follow the instructions on the printer.

General Problems

Problem	Cause	Solution
The Océ BLM500 does not start	The Océ BLM500 is not turned on.	Turn ON the Océ BLM500 (see *'Turn On the Océ BLM500' on page 13*).
	The printer has not sent a job to the Océ BLM500.	Correct the problem at the printer.
	The Océ BLM500 is not connected to the mains power supply.	Connect to the mains power supply of the correct type and voltage (see *'Turn On the Océ BLM500' on page 13*)
	A safety cover is open.	Close all safety covers.
	The trim bin is not fitted or the trim bin is not fitted correctly.	Fit the trim bin.
	The Océ BLM500 is not connected to the printer interface.	Check the interface cables. Connect the cables.
	A fuse has blown on the mains power input.	Replace the fuse(s) as needed (see *'Change the Fuses' on page 73*)
	The stitch head is jammed.	Clear the stitch head jam and start the Océ BLM500 again.*Clear a Stitch Head Jam on page 69*
	An error condition exists on the Océ BLM500.	Check the error message on the Touch Screen. Correct the fault (see *'Error Messages' on page 51*)
The operation of the touch screen is incorrect	The touch screen calibration is incorrect	Calibrate the touch screen (see *'Calibrate the Touch Screen' on page 72*)

Error Messages

Problem	Cause	Solution
AXES MOVING	Some of the machine axes are moving. This message clears when the adjustment is complete.	
BOOK CYCLE TIME TOO LONG	The printer has delivered the sets faster than the books can be made. To decrease the book cycle time, adjust the machine settings: ■ decrease the number of FORMS ■ decrease the number of STITCHES ■ decrease the TAMPER TIME	
Bridge axis moving	The bridge axis is moving. This message clears when the adjustment is complete.	
BRIDGE INFEED COVER OPEN	The bridge infeed cover is open. The machine will not operate until the cover is closed.	(see *'Clear Paper Jams' on page 60*)
BRIDGE MOTOR STALL	Check for a paper jam in the connecting bridge. Clear the jam and continue.	(see *'Clear Paper Jams' on page 60*)
CHECK THE TRIM BIN	The trim bin is either open or full. Check the trim bin. Empty the trim bin if necessary.	
COVER OPEN	A safety cover is open. The machine will not operate until the cover is closed.	
DRIVE MOTOR STALL	There is a paper jam. Check the machine and correct the error.	
Endlay axis moving	The endlay axis (size adjustment) is moving. This message clears when the adjustment is complete.	

Problem	Cause	Solution
ERROR IN TRIM AREA	There is an error at the trimmer. Check the machine for a paper or book jam.	
FLOW ERROR - BRIDGE	There is an error at the connecting bridge. Open the connecting bridge cover and check for a paper jam.	(see '*Clear Paper Jams' on page 60*)
FLOW ERROR - FORMER	There is an error at the former. Open the folder cover and remove the book or books. If necessary, open the main deck to remove the book or books.	*Jam in the Folder or Former Area on page 63*
FLOW ERROR - OUTFEED	There is an error at the outfeed. Check the outfeed. If necessary, remove the trim bin and open the trim stop guard to remove the book or books.	*Jam in the Trim Area on page 64*
Fold blade axis moving	The fold blade axis (book thickness adjustment) is moving. This message clears when the adjustment is complete.	
FOLD BLADE NOT PARKED	The fold blade is in the wrong position. Touch START ⏻ to reset the position.	
FORM CLAMP CLOSED	The form clamp is in the wrong position. Touch START ⏻ to reset the position.	
FORM ROLLER ERROR	The form roller is jammed. Clear the jam and continue.	(see '*Jam in the Trim Area' on page 64*)
FORM ROLLER NOT PARKED	The form roller is in the wrong position. Touch START ⏻ to reset the position.	
GATHERING AREA COVER OPEN	Close the gathering area cover if you need to operate the machine online.	
JAM AT BRIDGE INFEED	There is a paper jam at the infeed to the connecting bridge. Clear the jam and continue.	(see '*Clear Paper Jams' on page 60*)

Problem	Cause	Solution
JAM AT FORM ROLLER	The form roller is jammed. Open the folder cover and remove the jam.	(see *'Jam in the Trim Area' on page 64*).
JAM BEFORE TRIMMER	There is a book jammed before the trimmer. Clear the jam and continue.	(see *'Jam before the Trimmer' on page 64*).
JAM IN CONNECTING BRIDGE	There is a paper jam in the connecting bridge. Clear the jam and continue.	(see *'Jam in the Connecting Bridge' on page 62*)
JAM IN GATHERING AREA	There is a paper jam in the gathering area. Open the connecting bridge cover, lift the connecting bridge and remove the paper jam.	(see *'Jam in the Gathering Area' on page 63*)
JAM IN STACKER AREA	There is a paper jam at the outfeed of the machine. Remove the jammed books and continue.	
JAM IN STITCHER AREA	There is a paper jam in the stitch area. Open the folder cover, remove the paper jam and continue.	(see *'Jam in the Stitch Area' on page 63*)
JAM IN TRIMMER	There is a book jammed in the trimmer. Clear the jam and continue.	(see *'Jam in the Trim Area' on page 64*)
MANUALLY PARK SHUTTLE	The shuttle is not parked correctly. Open the folder cover and move the shuttle to the park position. Close the folder cover. The shuttle will reset. When the message list is clear, continue operation.	*Manually park the Shuttle on page 74*
MISSING STITCHES	The machine has detected missed stitches. Check if the stitch wire is jammed or if the stitch wire spool is empty.	(see *'Clear a Stitch Wire Jam' on page 67*) (see *'Install New Stitch Wire' on page 90*)

Problem	Cause	Solution
MOTOR OVERLOAD	The drive motor controller has reached its power limit. Check for a paper jam and clear if necessary. If the problem continues, contact your service engineer.	
REMOVE SET FROM FOLD AREA	Open the folder cover and remove the set.	
REMOVE SET - GATHERING AREA	Open the gathering area and remove the sheets. Or touch 'PURGE SET'.	
Rotate axis moving	The rotate axis is moving. This message clears when the adjustment is complete.	
Shuttle axis moving	The shuttle axis is moving. This message clears when the adjustment is complete.	
SHUTTLE MOTOR COMMS FAIL	Use the mains ON/OFF switch. Turn the machine OFF, then turn the machine ON. If the problem continues, then call your service engineer.	
SHUTTLE MOTOR ERROR	Use the mains ON/OFF switch. Turn the machine OFF, then turn the machine ON. If the problem continues, then call your service engineer.	
SHUTTLE NOT PARKED	The shuttle is in the wrong position. Touch START ⓘ to reset the position.	
Sidelay axis moving	The sidelay axis (size adjustment) is adjusting. This message clears when the adjustment is complete.	
STACKER FULL	The stacker is full. Unload the books from the stacker.	
Stitch axis moving	The stitch axis is moving. This message clears when the adjustment is complete.	

Problem	Cause	Solution
Stitch position adjusting	The stitch position is adjusting. This message clears when the adjustment is complete.	
STITCH TIMEOUT	There is an internal error. If the problem continues, then call your service engineer.	
TOO MANY PAGES	The printer has delivered more than 55 sheets into the gathering area. Remove the incorrect set. Correct the printer setting.	(see *'Open the Gathering Area Cover' on page 39*)
TOUCH PAD ERROR	There is a fault with the START and STOP touch pads. If the problem continues, then call your service engineer.	
Touch START to clear machine	There may be some paper in the machine. Touch START ⏻ to clear the machine before you start a new job.	
Trim axis moving	The trim axis (size adjustment) is moving. This message clears when the adjustment is complete.	
TRIM BIN OPEN	The trim bin is not fitted or is not contacting the safety switch. Fit the trim bin.	
TRIM BLADE NOT PARKED	The trim blade is in the wrong position. Touch START ⏻ to reset the position.	
USER STOP	The user has touched the STOP button while the machine is in operation. Touch START ⏻ to restart the machine.	

Book Quality

Paper Size and Book Quality Instructions

- Careful measurement of the paper size and set thickness is important.
- To make an accurate book you must enter accurate paper dimensions into the touch screen.
- Measure the size of the printed paper. The paper dimension changes when the paper is printed.
- If the book is made from several different types of paper, make sure the different paper types are all the same size. If the size of the paper is different, an accurate book cannot be made.
- Adjustments to the **FORM** settings can be necessary for some types of paper.

Machine Adjustments

Machine adjustments can be made while the machine is in operation. The **PAPER SIZE** adjustment is limited to a maximum of +/- 1mm when the machine is in operation.

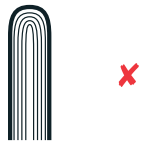
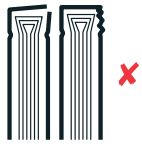
Book Quality Problem	Cause	Solution
The finished book is not tidy	The wrong paper size was entered on the touch screen.	Measure the paper and enter the correct dimensions (see *'Enter the Job Settings' on page 14*).
	The book is made from paper that is different sizes.	Only use paper of the same size (see *'Paper Size and Book Quality Instructions' on page 56*).
	The Océ BLM500 adjustment system is not calibrated correctly.	Touch **RE-REF** in the **ADVANCED** window to calibrate the Océ BLM500 adjustment axes. (see table *12 on page 30*)
	The static elimination bars are dirty.	Clean the static elimination bars (see *'Clean the Static Elimination Bars' on page 80*).
	Incorrect function of the static elimination bars.	Call your service engineer.

Book Quality Problem	Cause	Solution
The spine is not formed correctly	The **SET THICKNESS** is incorrect.	Measure the set thickness and enter the correct dimension (see *'Enter the Job Settings' on page 14*).
	The settings for **FORM** or **PRESSURE** are incorrect.	(see *'Spine Form Problems' on page 58*)
The square spine is not formed	The **SET THICKNESS** is less than the spine form **THRESHOLD**.	Decrease the **THRESHOLD** value. See "THRESHOLD" in table *10 on page 26*
	The **FORM** function is turned off.	Turn on the **FORM** function. See "FORM" table *10 on page 26*
The finished book is not tight	The spine needs more form.	Increase the pressure on the spine. See "PRESSURE" table *10 on page 26*
		Increase the amount of spine form. See "FORM" in table *10 on page 26*
The book is not trimmed	The **TRIM** function is not selected.	Turn on the **TRIM** function. See "TRIM" in table *10 on page 26*
	The trim position is set larger than the book.	Reset the trim position. See "TRIM" in (see table *10 on page 26*)
The book is not trimmed square	Trimmed paper has collected on the trim stop.	Clear the trimmed paper from the trim stop. (see *'Jam in the Trim Area' on page 64*)
The trimmed edge is of bad quality	The trimmer blade is blunt or damaged.	Call your service engineer.

Book Quality Problem	Cause	Solution
The stitch is not on the center line of the spine	The wrong paper size was entered on the touch screen.	Measure the paper and enter the correct dimensions.
	The Océ BLM500 adjustment system is not calibrated correctly.	Touch **RE-REF** in the **ADVANCED** window to calibrate the Océ BLM500 adjustment axes. (see table *12 on page 30*)
The books do not stack on the stacker	The collection table is in the wrong position.	Adjust the position of the collection table to fit the size of the finished book. (see *'Adjust the Gate in the Gathering Area' on page 44*)
The book cover is dirty or marked	The former roller is dirty.	Clean the former roller (see *'Clean the Former Roller' on page 82*).
	The former clamp is dirty.	*Clean the Polyurethane Strips in the Form Clamp* *on page 83*

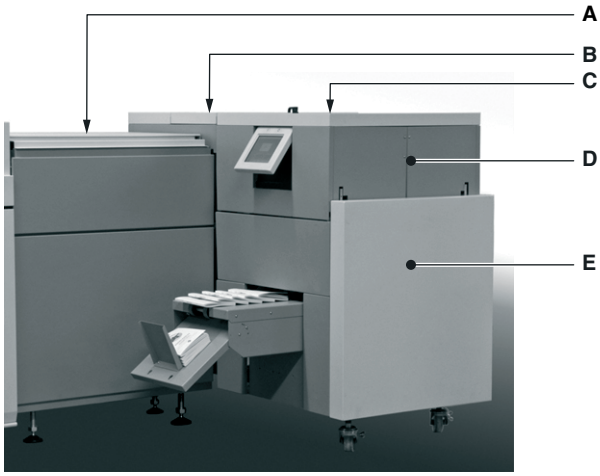
Spine Form Problems

Spine Form	Condition	Solution
✓	Correct The spine is square at each end and the paper is not damaged.	The Océ BLM500 setting is correct. Adjustment is not needed.

Spine Form	Condition	Solution
	Incorrect The spine needs more form.	
	If the spine needs more form at one end	Change **NUMBER** to 2 or 4. See "FORM" in table *10 on page 26*
	If the spine needs more form at each end	Increase **NUMBER** or increase **PRESSURE**. See "FORM" in table *10 on page 26*
	Incorrect The spine is damaged or there are creases near the spine.	Decrease **NUMBER** or decrease **PRESSURE** See "FORM" in table *10 on page 26*

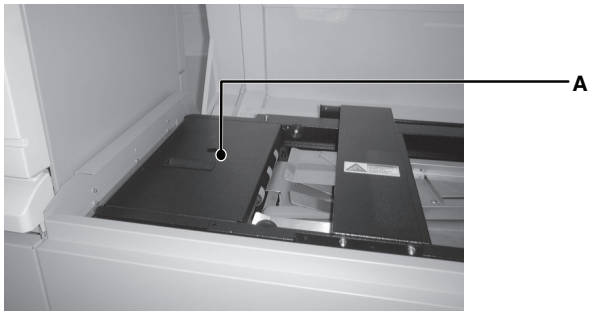
Clear Paper Jams

Introduction



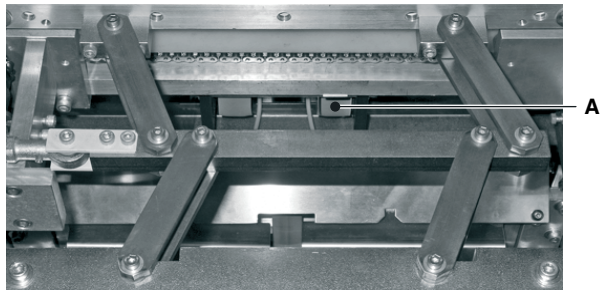
[24] Paper Jam Locations

A	Connecting Bridge
B	Gathering Area
C	Stitch Area
D	Fold and Forming Areas
E	Trim Area



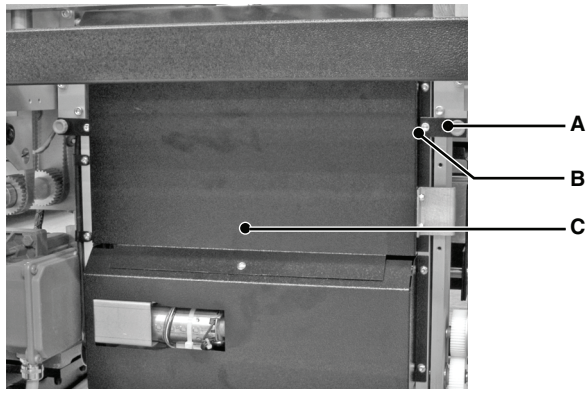
[25] Paper Jam Location - Bridge Infeed

A	Bridge Infeed Cover



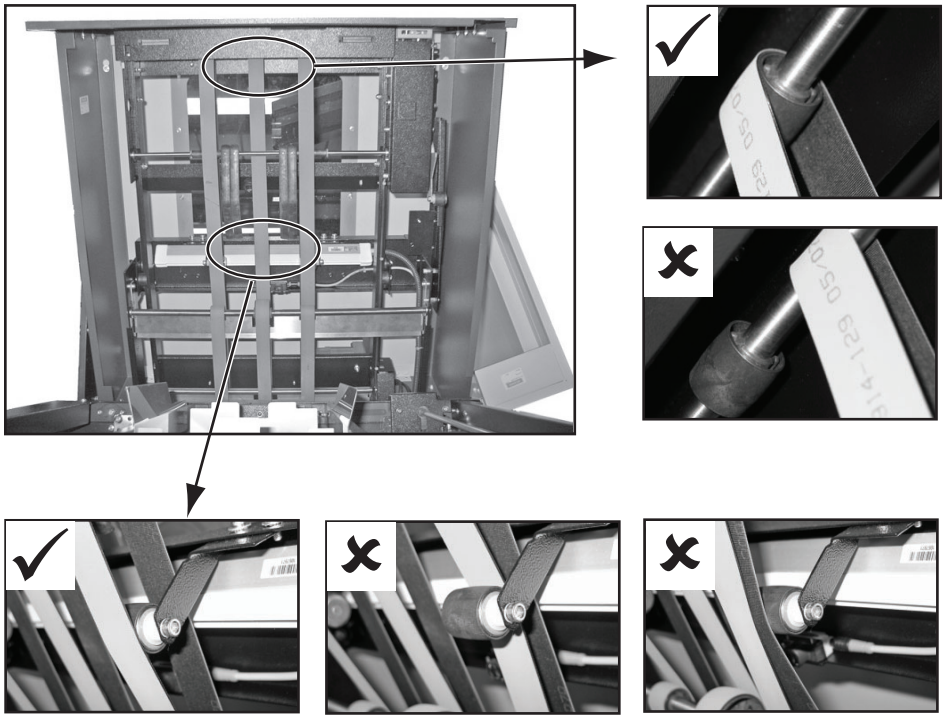
[26] Trimmer Infeed Conveyor viewed from above.

A	Trimmer Infeed Conveyor



[27] Trim Stop Assembly

A	Orange Plastic Hand Screw
B	Locking Plate
C	Trim Stop Guard



[28] Gathering Area Belt Positions

Jam in the Bridge Infeed

1. Open the bridge infeed cover.
2. Remove the jammed paper.
3. Close the bridge infeed cover.
4. If there is paper in the gathering area, touch **PURGE SET**. This action clears paper from the Océ BLM500.
5. Continue the print job.

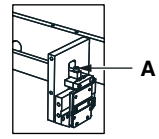
Jam in the Connecting Bridge

1. Open the connecting bridge cover.
2. Remove the jammed paper. Do not damage or move the belts.
3. Close the connecting bridge cover.
4. If there is paper in the gathering area, touch **PURGE SET**. This action clears paper from the Océ BLM500.
5. Continue the print job.

Jam in the Gathering Area

1. Open the connecting bridge cover.
2. Lift the gathering area cover.
3. Remove the jammed paper.
4. Check the belts are in the correct position. Adjust the position of the belts if necessary. figure *28 on page 62*
5. Close the gathering area cover.
6. Close the connecting bridge cover.
7. Continue the print job.

Jam in the Stitch Area

Step	Action	Information
1	Open the folder cover.	(see '*Open the Folder Cover' on page 36*)
2	Lift the clincher frame.	(see '*Lift and Lower the Clincher Frame' on page 37*).
3	Remove the jammed paper.	 Press to manually operate the clincher.
4	Check for broken or damaged stitches in the clincher area. Manually operate the clincher to clear any stitches that are jammed.	(see '*Lift and Lower the Clincher Frame' on page 37*)
5	Lower the clincher frame.	
6	Close the folder cover.	
7	If there is paper in the gathering area, touch **PURGE SET**.	This action clears paper from the Océ BLM500.
8	Continue the print job.	

Jam in the Folder or Former Area

1. Open the folder cover.
2. Remove the jammed paper. If you cannot see the paper in the former area. (see '*Jam in the Trim Area' on page 64*)
3. Close the folder cover.
4. If there is paper in the gathering area, touch **PURGE SET**. This action clears paper from the Océ BLM500.
5. Continue the print job.

Jam before the Trimmer

Step	Action	Information
1	Open the Océ BLM500 main deck	
2	Remove the trim bin.	
3	Remove the trimmer infeed conveyor.	The procedure can be seen from the top of the machine. Access to the parts is through the trim bin opening. Hold the shaft and push to the right, against the spring pressure. Lift the left hand end clear.
4	Remove the book.	
5	Remove any paper offcuts from the trimmer infeed conveyor.	A small piece of paper can cover the jam sensor and generate an error message.
6	Fit the trimmer infeed conveyor.	Insert the right hand end of the shaft into the bearing, against the spring pressure. Insert the left hand end.
7	Fit the trim bin.	
8	Close the Océ BLM500 main deck and covers.	
9	If there is paper in the gathering area, touch **PURGE SET**.	This action clears paper from the Océ BLM500.
10	Continue the print job.	

Jam in the Trim Area

Step	Action	Information
1	Remove the trim bin.	
2	Loosen the 2 orange plastic hand screws to release the locking plates.	The locking plates can rotate to release the trim stop guard.
3	Pull the trim stop guard towards you.	

Step	Action	Information
4	Remove the jammed book.	Check the trim stop and remove any pieces of trimmed paper.
5	Push the trim stop guard into position.	
6	Hold the locking plates in position and tighten the orange hand screws.	
7	Attach the trim bin	
8	Touch **PURGE SET**.	This action clears any other paper from the Océ BLM500.
9	Continue the print job.	

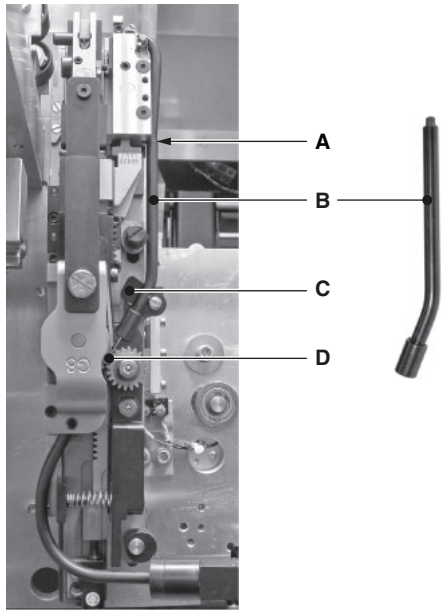
Stitch Head Problems

Problem	Cause	Solution
The stitch head does not operate	The **STITCH** function is not selected.	Make sure **STITCH** is set to 1 or more (see *'The BASIC Window' on page 26*).
	The stitch wire is finished.	Load a new spool of stitch-wire (see *'Install New Stitch Wire' on page 90*).
	The stitch wire is jammed.	Clear the jammed stitch wire (see *'Clear a Stitch Wire Jam' on page 67*).
The stitches are broken	There is stitch wire jammed in the stitch head.	Inspect and remove the jammed stitch wire (see *'Clear a Stitch Wire Jam' on page 67*).
The stitch wire is jammed on the spool	The stitch wire spool is not installed correctly.	Check and correct (see *'Fit a New Stitch Wire Spool' on page 91*).

Clear a Stitch Wire Jam

Introduction

Before you begin:
Lift the Océ BLM500 main deck. See *Lift the Océ BLM500 Main Deck* *on page 40*



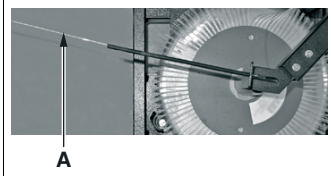
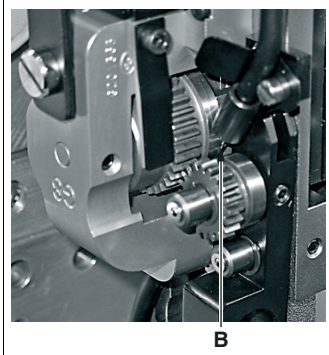
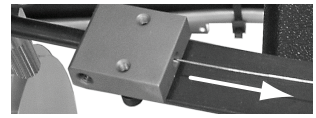
[31] Stitch Head.

A	Top location of Middle Wire Tube
B	Middle Wire Tube
C	Metal Spring Clip
D	Feed Gears

Before You Begin

Step	Action	Information
1	Turn off the BLM500	Use the mains ON/OFF switch.
2	Disconnect the BLM500 from the mains power supply.	
3	Lift the BLM500 main deck	(see *'Lift the Océ BLM500 Main Deck' on page 40*)

Clear the Jammed Wire

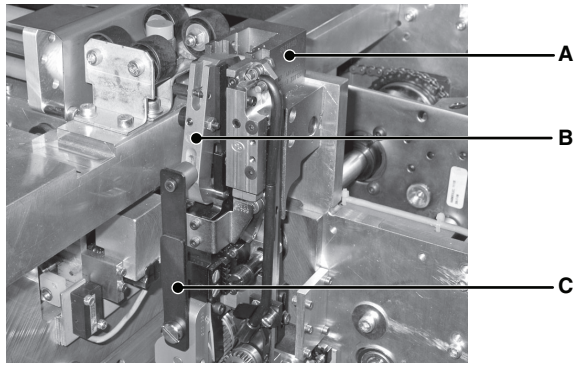
Step	Action	Information
1	Cut the stitch wire at position 'A' approximately 50mm (2-inches) from where the stitch wire leaves the stitch-wire guide.	 *Detail A:* Cut stitch wire here.
2	Cut the stitch wire at position 'B' between the feed gears and the middle wire tube.	 *Detail B:* Cut stitch wire here.
3	Pull the stitch wire from the stitch wire guide block.	 Pull stitch wire in direction of arrow
4	Pull the stitch wire from the middle wire tube.	Stitch Head.. If there is not enough stitch-wire left to pull, then follow the procedure(see *'Remove the Stitch Wire from the Stitch Head' on page 91*)
5	Install the stitch wire into the stitch head.	(see *'Install the Stitch Wire into the Stitch Head' on page 93*)

Clear a Stitch Head Jam

Introduction

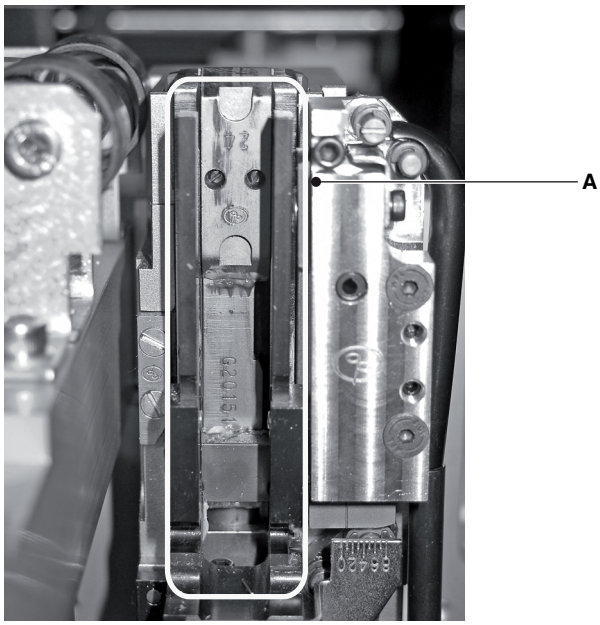
Problem: A loud and repeated banging noise from the fold area of the Océ BLM500 or the Océ BLM500 will not start.

Action: Press the stop button. The banging noise does not indicate damage has occurred, but can cause alarm. Follow the procedure below.



[35] Remove the stitch head wire-holder

A	Stitch head
B	Wire-holder
C	Wire-holder retaining spring

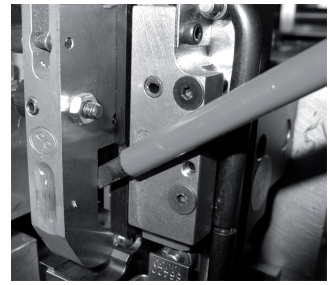


[36] Inspect for stitch-wire

A	Inspect this area for pieces of stitch-wire

Tools and Materials:

- Klüber Isoflex NBU 15 Grease, 50g. Article number 1060060886
- Air duster. Supplied with the machine.
- Wire cutters. Supplied with the machine.
- Flat blade screwdriver.

Step	Action	Information
1	"Lift the Océ BLM500 main deck.	*Lift the Océ BLM500 Main Deck on page 40*
2	Remove the wire-holder from the stitch head.	■ Move the wire-holder retaining spring to the right. figure *35 on page 69* ■ Remove the wire-holder If the wire-holder is held in position, use a screw driver to help remove the wire-holder from the stitch head. 
3	Inspect the area behind the wire-holder for stitch-wire.	figure *36 on page 70*
4	Remove any stitches or pieces of stitch-wire and clean the area with the air-duster.	Use the wire-cutters to remove any jammed stitches or pieces of stitch-wire.
5	Lubricate the stitch-head.	*Lubricate the Stitch Head on page 85*
6	Fit the wire-holder.	Remember to put the wire-holder retaining spring in position.
7	Close the Océ BLM500.	
8	Start the Océ BLM500.	If the head operates normally and returns to the parked position, then further action is not needed. If the stitch-head remains jammed, then repeat the procedure once. If the problem continues, then contact your service engineer.

Calibrate the Touch Screen

When to do

Calibrate the touch screen if the buttons do not operate or the buttons do not operate correctly.

Attention: Use a pencil, the blunt end of a pen or a palm top wand for this procedure. Do not use a sharp object. Sharp objects damage the screen.

Procedure

1. Touch the STOP button (0) 5 times.
2. Follow the instructions on the touch screen.
3. Touch **DONE** in the centre of the screen.

Change the Fuses

Introduction

The Océ BLM500 has two fuses at the mains power input. If either fuse is broken, the Océ BLM500 will not operate.

Attention: Turn OFF the machine and remove the mains power supply cable before you change the fuses. This machine uses two fuses in parallel.
Fuse Description
- 7A, HRC Quick acting, F
- Article number 1060059289

Procedure

1. Turn OFF the Océ BLM500.
2. Disconnect the Océ BLM500 from the mains power supply.
3. Turn one fuse-holder to the left and remove the fuse-holder from the Océ BLM500
4. Check the fuse.
5. If the fuse is broken then replace with a fuse of the correct specification.
6. Repeat the procedure for the other fuse.

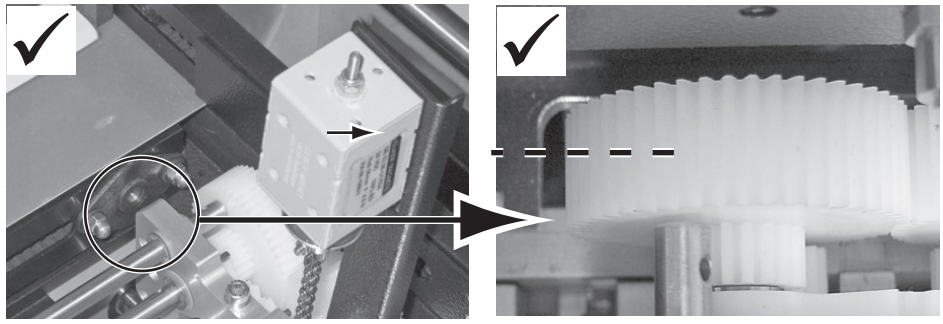
Note: *If the fuse breaks again, then call your service engineer.*

Manually park the Shuttle

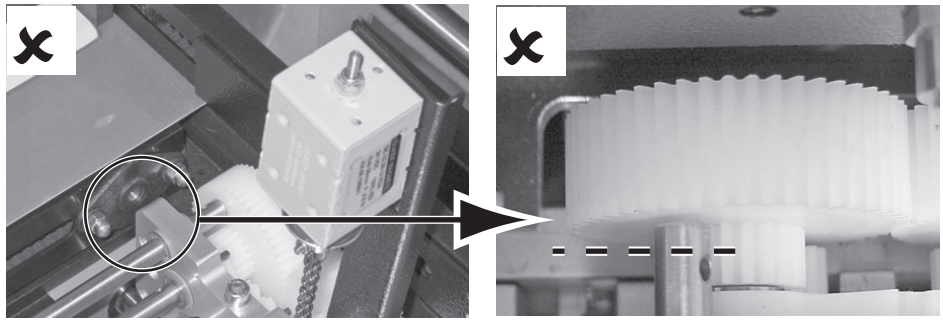
When to do

The error messages '**MANUALLY PARK SHUTTLE**' and '**SHUTTLE NOT PARKED**' are displayed.

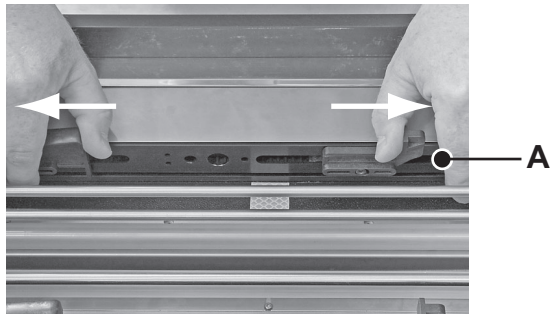
Illustration



[38] Shuttle Assembly Position - CORRECT



[39] Shuttle Assembly Position - NOT CORRECT



[40] Detail A: Pick-up fingers

Step		
1	Open the folder cover.	*Open the Folder Cover* *on page 36*
2	Push the shuttle-assembly to the right.	figure *38 on page 74* shows the correct position for the shuttle assembly. If the shuttle assembly does not move to the correct position, push the pick-up fingers away from each other by 2-3mm and try again. Repeat if necessary.
3	Wait until the error message '**SHUTTLE NOT PARKED**' is cleared from the screen.	If the message does not clear, check that the shuttle assembly is in the correct position. Repeat Step 2 if necessary.
4	Close the folder cover.	

Result

The error message '**MANUALLY PARK SHUTTLE**' is cleared from the screen. The shuttle axis re-references and the message 'Shuttle axis moving' is displayed. When the message list is clear, you can continue operation

Chapter 6
Maintenance

About Maintenance

Service Interval

- The Océ BLM500 needs service every four months.
- After every one-million stitches, the stitch head needs service. This interval is every 3rd spool of stitch wire.

Only a service engineer can service the Océ BLM500. Contact your supplier for further information.

Operator Maintenance

Correct maintenance by the operator makes sure that

- The machine operates correctly
- The machine makes high quality books
- The machine is safe to use
- Small problems can be identified early

Operator Maintenance Plan

Interval	Task	Reference
■ Every week	Clean the machine.	(see '*Océ BLM500 cleaning' on page 79*)
	Clean the static elimination bars.	(see '*Clean the Static Elimination Bars' on page 80*)
■ Every month, or ■ When a new stitch wire is installed if this interval is shorter.	Lubricate the stitch head.	(see '*Lubricate the Stitch Head' on page 85*)

Océ BLM500 cleaning

Introduction

Clean the Océ BLM500 every week to remove surface dust.

Attention: Only clean the machine with materials that are recommended in this manual. Do not use other chemicals or abrasive material.

Outside of the Océ BLM500

Use a moist cloth to clean the outside of the Océ BLM500.

Touch screen

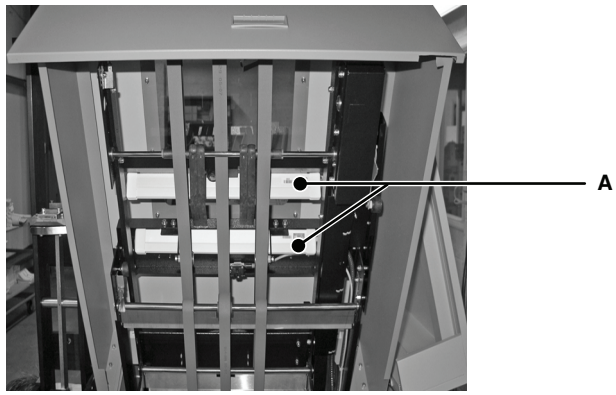
Clean the touch screen with a clean, dry cloth. Never use an abrasive material or chemical to clean the touch screen. Light pressure with a clean, dry cloth is enough to remove fingerprints. Do not use too much force.

Clean the Static Elimination Bars

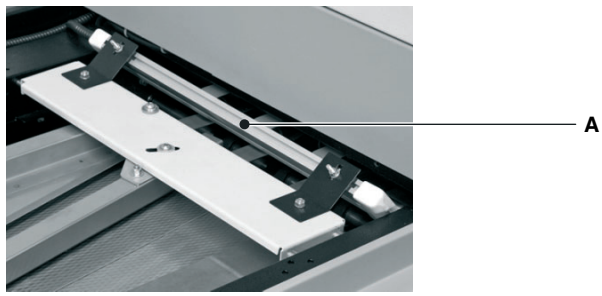
Introduction

Clean the static elimination bars every week. This action extends the performance and service life of the static elimination bars
The Océ BLM500 is supplied with a small brush. Use the brush to clean the static elimination bars.

There are three static elimination bars.
- One in the connecting bridge
- Two in the gathering area



[41] The Static Elimination Bars in the Gathering Area



[42] The Static Elimination Bar in the Connecting Bridge

A	Static Elimination Bars

Note: *On the bottom of the static elimination bar there is a row of sharp pins. The pins are not dangerous, but if you touch the pins accidentally, this action can alarm you.*

Step	Action	Information
1	Clean the static elimination bar in the connecting bridge.	■ Open the connecting bridge cover. ■ Clean the pins on the bottom of the static elimination bar with a small brush
2	Clean the static elimination bar in the gathering area.	■ Open the gathering area cover. ■ Clean the pins on the bottom of the static elimination bar with a small brush
3	Close the Océ BLM500	■ Close the gathering area cover ■ Close the connecting bridge cover.

Clean the Former Roller

When to do

Clean the former roller if the spines of the books are dirty. Ink and toner can collect on the former roller.

Required tool

Clean, plain paper that is not printed. A3 size (USA: 11 x 17”) is recommended. 4mm thickness is needed for each cycle. More than one cycle can be needed.

Step	Action	Information
1	Enter the correct settings on the touch screen.	■ Set the touch screen to the correct **PAPER SIZE** ■ Set the **SET THICKNESS** to 4.0 ■ Set the number of **STITCHES** to 0. ■ Set the number of **FORMS** to 4.
2	Touch START ⓘ	
3	Open the connecting bridge cover.	
4	Lift the gathering area cover.	
5	Put 4mm of clean paper in the gathering area.	
6	Press the two orange buttons and hold for 9 seconds, or until you hear the folder operate.	

Result

The book is delivered to the stacker. Check the book. Repeat the procedure until the book spine is clean.

Clean the Polyurethane Strips in the Form Clamp

When to do

Follow this procedure if there are dirty marks near the spine on the front and back cover of the book. Ink and toner can collect on these parts, especially when you make thin books.

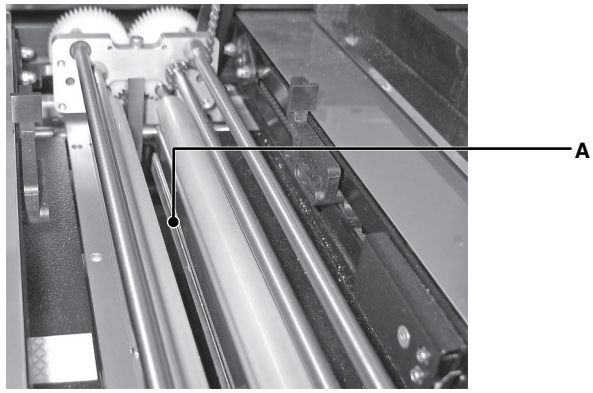
Required tools

Alcohol wipe, Océ article number 1060060887 or
a lint free cloth and alcohol (isopropanol)

Caution: Only use alcohol to clean this part of the machine. Other chemicals can damage the machine.

Note: *If you push the eject rollers, the rollers can move together against your hand. This movement can alarm you, but is not dangerous.*

Illustration



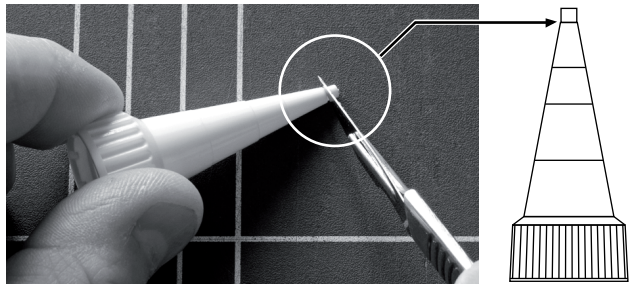
[43] Detail A: Polyurethane strips

Step	Action	Information
1	Open the folder cover	
2	Use an alcohol wipe, or apply a small amount of alcohol to a lint free cloth.	

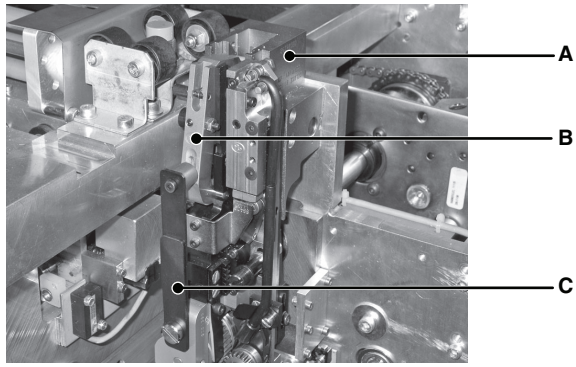
Step	Action	Information
3	Reach into the form clamp and clean each of the polyurethane strips.	There is a polyurethane strip on the face of each side of the clamp. Repeat this step until the polyurethane strips are clean.
4	Close the folder cover	

Lubricate the Stitch Head

Introduction

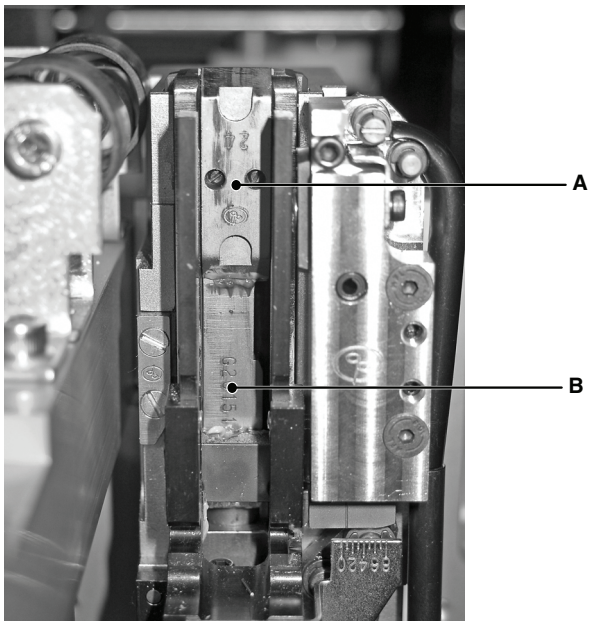


[44] Trim the nozzle of the tube of grease



[45] Stitch Head Wire Holder

A	Stitch Head
B	Wire Holder
C	Wire Holder Retaining Spring



[46] Driver Bar

A	Driver, in upper position
B	Driver Bar

Required tools

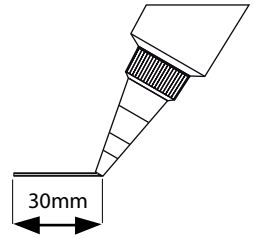
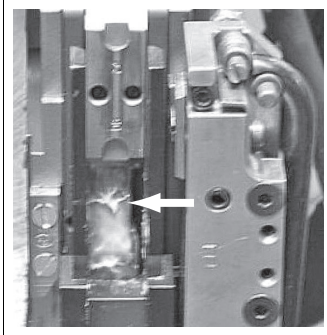
Klüber Isoflex NBU15 Grease, 50g - Oce article number 1060060886
Air duster - is supplied with the machine.

Attention: - Only use the grease shown in this manual. Correct lubrication extends the performance and service life of the stitch head. Other types of grease do not protect the stitch head
- Only apply the grease as shown. If you apply additional grease, the paper gets marked.

Before You Begin

Step	Action	Information
1.	Trim the first part from the nozzle.	figure *44 on page 85*
2.	Remove the cap from the tube of grease.	
3.	Fit the nozzle to the tube of grease.	
4.	On the user interface, touch ⩾ **ADVANCED > STITCHER UP > STITCHER UP**	The folder cover must be closed. This action moves the stitch head to the correct position for lubrication.
5.	Lift the BLM500 main deck	See *Lift the Océ BLM500 Main Deck on page 40*

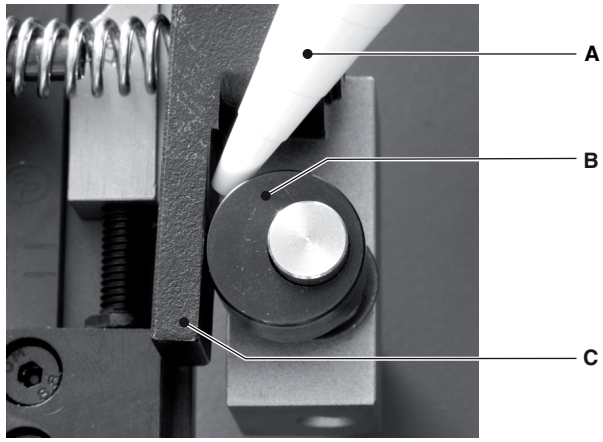
Apply the Grease to the Driver Bar

Step	Action	Information
1	Use the supplied air duster to remove dust from the stitch head.	
2	Remove the wire holder from the stitch head.	Move the wire holder retaining spring to the right. Then remove the wire holder*Introduction on page 85*
3	Apply a small amount of grease to the visible surface of the driver bar	figure *46 on page 86*  
4	Re-fit the wire holder.	

Step	Action	Information
5	Lower theOcé BLM500 main deck.	
6	Lower the clincher frame.	(see *'Lower the Clincher Frame' on page 38*).
7	Close all of the covers.	

Lubricate the Wire-feed Cam

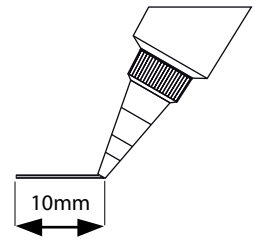
Introduction



[49] Lubricate the wire-feed cam

A	Nozzle for the tube of grease
B	Wire-feed cam
C	Feed lever

Lubricate the wire-feed cam

Step	Action	Information
1.	Lift the PSQ main deck.	
2.	Apply 10mm of grease from the tube between the bearing surface of the wire-feed cam and the feed lever.	figure *49* 
3.	Lower theOcé BLM500 main deck	
4.	Lower the clincher frame.	*Lower the Clincher Frame on page 38*
5.	Close all of the covers	

Install New Stitch Wire

Introduction

Only use stitch wire that is approved by your supplier. Stitch wire that is not approved by your supplier can cause bad performance and cancels the warranty.

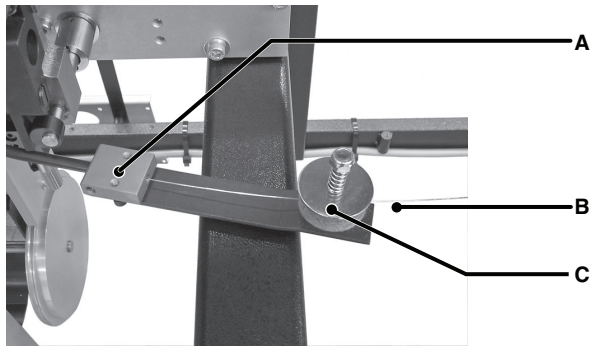
Stitch Wire Description

- Model name stitcher wire S33
- Article number 29701412

Before you begin

Lift the Océ BLM500 main deck.
See (see '*Lift the Océ BLM500 Main Deck' on page 40*)

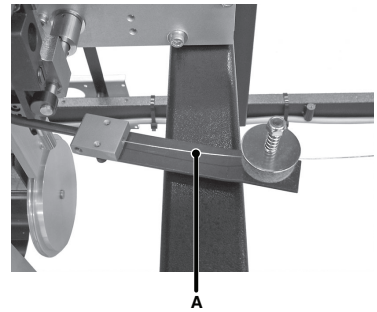
Illustration



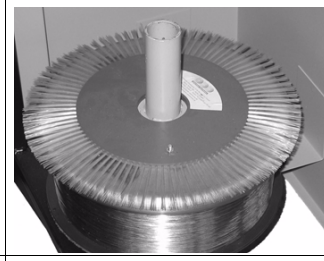
[51] Stitch Wire Guide Block

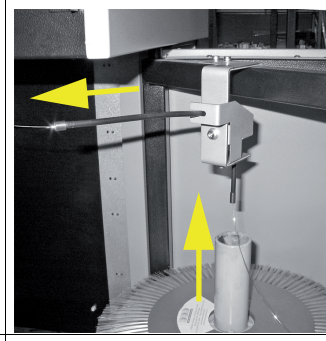
A	Stitch Wire Guide Block
B	Stitch wire
C	Felt wire-cleaning pads

Remove the Stitch Wire from the Stitch Head

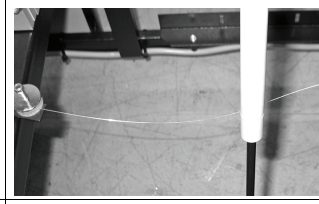
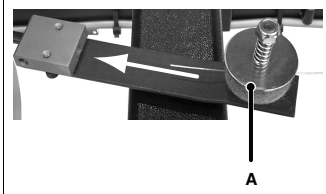
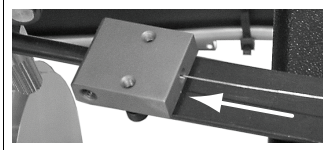
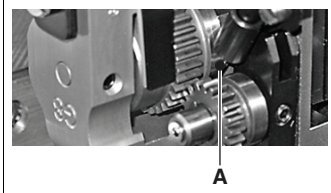
Step	Action	Information
1	Cut the stitch wire to the right of the stitch wire guide block.	 Detail A: Cut here
2	Pull the stitch wire from the stitch wire guide block.	
3	Fit a new stitch wire spool.	(see '*Fit a New Stitch Wire Spool*')

Fit a New Stitch Wire Spool

Step	Action	Information
1	Open the stitch wire cabinet	
2	Remove the stitch wire cap and finished stitch wire spool.	
3	Fit a new stitch wire spool.	
4	Fit the stitch wire cap	
5	Loosen the end of the stitch wire from the edge of the stitch wire spool.	
6	Use wire cutters to remove the damaged end of the stitch wire.	Remove enough stitch wire to leave the end of the stitch wire clean and straight.

Step	Action	Information
7	Feed the stitch wire through the stitch wire guide.	
8	Install the stitch wire.	(see *'Install the Stitch Wire into the Stitch Head' on page 93*)

Install the Stitch Wire into the Stitch Head

Step	Action	Information
1	Pull the stitch wire from the end of the stitch wire guide.	
2	Make sure the stitch wire runs behind the gas-strut.	
3	Feed the end of the stitch wire between the felt wire-cleaning pads.	 *Detail A:* Felt Wire-Cleaning Pads
4	Push the stitch wire into the stitch wire guide block.	 Push stitch wire in direction of arrow
5	Push the stitch wire as far as possible.	 *Detail A:*Make sure the stitch wire runs between the wire feed rollers and into the middle wire tube.

Close the Océ BLM500

Step	Action	Information
1	Close the stitch wire cabinet.	
2	Lower theOcé BLM500 main deck.	(see *'Lower the Clincher Frame' on page 38*).
3	Lower the clincher frame.	

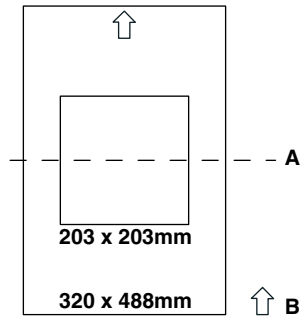
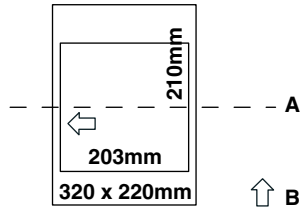
Step	Action	Information
4	Close the folder cover..	
5	Close the connecting bridge cover.	

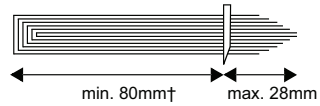
Feed the Stitch Wire

Step	Action	Information
1	Touch START ⏻.	
3	Set the number of stitches to 6	(see '*Job Setting for a Standard Paper Size' on page 15*)
4	Hand-feed or print an A4 or larger size test job..	The stitch wire loads automatically during the stitch head cycle.
5	Check the stitch wire is loaded.	Check that a stitch is made. If needed, repeat the previous step.
6	Reset the number of stitches on the touch screen.	

Appendix A
Specifications

Specifications

Operating Conditions	10-35°C at 35-85% relative humidity
Production	Cycle time: Printer dependent Interset gap: 2 seconds Minimum set time: 6 seconds
Stock Sizes	Minimum input size: 203 x 203mm Maximum input size: 320 x 488mm  A = Stitch & fold line B = indicates original lead edge from the printer
Sheet Rotation	Integrated rotator ensures maximum printer productivity. Maximum rotation sheet size: 320 x 220mm Minimum rotation sheet size: 210x203mm he cross-track dimension of the sheet (before rotation) must be at least 7mm greater than the in-track dimension.  A = Stitch & fold line B = indicates original lead edge from the printer
Stock Range	80-160gsm normal Océ paper types 70-250gsm dependant on paper type and quality
Book Thickness	Maximum finished book thickness: 10mm (approximately 200 pages 80gsm) Maximum set thickness: 5mm (approximately 50 sheets 80gsm)

Stitching	1-6 stitches, evenly spaced on the spine of the book Stitches/spool: up to 291,500 Books*/spool: approximately 127,000
Trimming	Maximum fore-edge trim: 28mm Minimum trimmed book size: 80mm  † Serial no. 22 onwards
Stacker Capacity	35 books*
Paper Input Requirements	Input sheets must be of consistent size and cut square. Machine setting must match paper size at the input to the Océ BLM500 Book quality is dependent upon quality of input sheets.
Dimensions	Footprint: 1870 x 1675mm Height - 1330mm maximum
Weight	Océ BLM500 including stitching wire: 542kg As above, plus bridge and bridge covers: 702kg
Power Supply	Adjustable to 200, 208, 220, 230 and 240V 50/60Hz, single phase
Power Consumption	stand-by: 92VA (75W) in operation: 700VA (500W)
Noise Emission	stand-by: ambient in operation: 66 dB (A), peak 87 dB (A)
Approvals	Complies with CE and UL. Conforms to FCC rules Part 15 Class A.
* Standard book is made from 20 sheets of 80gsm paper, with 2 stitches.	
Production may vary according to operating conditions. In line with a policy of continual product improvement, the manufacturer reserves the right to alter the materials or specification of this product at any time without notice.	

Appendix B
Declaration of Conformity

Declaration of Conformity

Name of Manufacturer:	Watkiss Automation Limited
Address of Manufacturer:	Watkiss House Blaydon Road Sandy, Bedfordshire SG19 1RZ United Kingdom
Declares that the product:	
Name of Product:	Océ BLM500
serial Number:	WA/PSQ/---/010 onwards
Conforms to the following Product Specifications:	
Safety:	290/95/EEC & 98/37/EC Council Directive 'on the approximation of laws of Member States relating to machinery'. BS EN 60950 : 2002
EMC:	89/336/EEC Council Directive 'on the approximation of laws of Member States relating to electromagnetic compatibility'. EN55022:1998 Class A EN55024:1998 EN61000-3-2:2000 EN61000-3-3:1995 + A1:2001
	M C Watkiss Technical Director Watkiss Automation Ltd. 2nd January 2007

Appendix C
Miscellaneous

Reader's comment sheet

Questions

Have you found this manual to be accurate?
O Yes
O No

Were you able to operate the product, after reading this manual?
O Yes
O No

Does this manual provide sufficient background information?
O Yes
O No

Is the format of this manual convenient in size, readability and arrangement (page layout, chapter order, etc.)?
O Yes
O No

Could you find the information you were looking for?
O Always
O Most of the times
O Sometimes
O Not at all

What did you use to find the required information?
O Table of contents
O Index

Are you satisfied with this manual?
O Yes
O No

Thank you for evaluating this manual.
If you have other comments or concerns, please explain or suggest improvements overleaf or on a separate sheet.

Comments:

Date:

This reader's comment sheet is completed by:
(If you prefer to remain unknown, please do fill in your occupation)

Name:

Occupation:

Company:

Phone:

Address:

City:

Country:

Please return this sheet to:

Océ-Technologies B.V.
For the attention of ITC User Documentation.
P.O. Box 101,
5900 MA Venlo
The Netherlands

Send your comments by E-mail to: itc-userdoc@oce.com

For the addresses of local Océ organisations see: http://www.oce.com

Addresses of local Océ organisations

Océ-Australia Ltd. P.O. Box 363 Ferntree Gully MDC Vic 3165 **Australia** http://www.oce.com.au/	Océ-Österreich GmbH Postfach 95 1233 Vienna **Austria** http://www.oce.at/
Océ-Belgium N.V./S.A. J. Bordetlaan 32 1140 Brussel **Belgium** http://www.oce.be/	Océ-Brasil Comércio e Indústria Ltda. Av. das Nações Unidas, 11.857 Brooklin Novo São Paulo-SP 04578-000 **Brasil** http://www.oce-brasil.com.br/
Océ-Canada Inc. 4711 Yonge Street, Suite 1100 Toronto, Ontario M2N 6K8 **Canada** http://www.oce.ca/	Océ Office Equipment (Beijing) Co., Ltd. Xu Mu Cheng Chaoyang District Beijing 100028 **China** http://www.oce.com.cn/
Océ-Czech Republic ltd. Hanusova 18 140 21 Praha 4 **Czech Republic** http://www.oce.cz/	Océ-Danmark a/s Vallensbækvej 45 2605 Brøndby **Denmark** http://www.oce.dk/
Océ Finland OY Valkjärventie 7 D, PL 3 02130 Espoo **Finland** http://www.oce.fi/	Océ-France S.A. 32, Avenue du Pavé Neuf 93161 Noisy-le-grand, Cedex **France** http://www.oce.fr/
Océ-Deutschland GmbH Solinger Straße 5-7 45481 Mülheim/Ruhr **Germany** http://www.oce.de/	Océ-Hong Kong and China head office 12/F 1202 The Lee Gardens 33 Hysan Avenue Causeway Bay **Hong Kong** http://www.oce.com.hk/

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Océ-Italia S.p.A. Strada Padana Superiore 2/B 20063 Cernusco sul Naviglio (MI) **Italia** http://www.oce.it/	Océ Japan Corporation 3-25-1, Nishi Shinbashi Minato-Ku Tokyo 105-0003 **Japan** http://www.ocejapan.co.jp/
Océ-Belgium S.A. Rue Astrid 2/A 1143 **Luxembourg**-Belair http://www.oce.lu/	Océ Malaysia Sdn. Bhd. #3.01, Level 3, Wisma Academy Lot 4A, Jalan 19/1 46300 Petaling Jaya Selangor Darul Ehsan **Malaysia** http://www.ocemal.com.my/
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Océ-Poland Ltd. Sp.z o.o. ul. Bitwy Warszawskiej 1920 r. nr. 7 02-366 Warszawa **Poland** http://www.oce.com.pl/	Océ-Lima Mayer, S.A. Av. José Gomes Ferreira, 11 Piso 2 - Miraflores 1497-139 Algés **Portugal** http://www.oce.pt/
Océ Singapore Pte Ltd. 190 MacPherson Road #03-00 Wisma Gulab **Singapore** 348548	Océ Printing Systems (PTY) Ltd. P.O.Box 629 Rivonia 2128 **South Africa**

Océ España SA Business Park Mas Blau Osona, 2 08820 El Prat de Llobregat Barcelona **Spain** http://www.oce.es/	Océ-Svenska AB Sollentunavägen 84 191 27 Sollentuna **Sweden** http://www.oce.se/
Océ-Schweiz AG Sägereistrasse 10 CH8152 Glattbrugg **Schweiz** http://www.oce.ch/	Océ (Thailand) Ltd. B.B. Building 16/Floor 54 Asoke Road Sukhumvit 21 Bangkok 10110 **Thailand**
Océ-Nederland B.V. P.O.Box 800 5201 AV 's-Hertogenbosch **The Netherlands** http://www.oce.nl/	Océ (UK) Limited Océ House Chatham Way Brentwood, Essex CM14 4DZ **United Kingdom** http://www.oce.co.uk/
Océ North America Inc. 5450 North Cumberland Avenue Chicago, IL 60656 **USA** http://www.oceusa.com/	

Note: *The web site http://www.oce.com gives the current addresses of the local Océ organizations and distributors.*

Note: *The addresses of local Océ organizations for information about the Wide Format Printing Systems and the Production Printing Systems can be different from the addresses above. Refer to the web site http://www.oce.com for the addresses you need.*